

ABSTRACT

A spill/fill engine detects when a register window spill trap or a register window fill trap is imminent. The spill/fill engine takes steps to avoid the trap so as to not incur
5 an undue amount of overhead in servicing the trap with a software trap handler. The spill/fill engine may be implemented in hardware. The traps may be avoided by injecting appropriate instructions into an instruction stream for execution.

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